

Year Class	M. S. L. at Annulus 1	M. S. L. at Annulus 2	M. S. L. at Annulus 3	M. S. L. at Annulus 4	M. S. L. at Annulus 5	M. S. L. at Annulus 6	M. S. L. at Annulus 7	M. S. L. at Annulus 8	M. S. L. at Annulus 9	M. S. L. at Annulus 10	M. S. L. at Annulus 11	M. S. L. at Annulus 12	M. S. L. at Annulus 13	M. S. L. at Annulus 14	M. S. L. at Annulus 15	M. S. L. at Annulus 16	Number in Age Class
1	2.7																23
2																	0
3	3.0	3.9	6.4														2
4	3.2	4.5	6.1	8.3													1
5																	0
6	2.4	3.5	5.2	7.0	10.5	14.8											4
7	2.9	4.1	5.6	8.4	12.1	17.6	21.4										6
8	2.5	3.9	5.8	8.0	10.7	14.5	18.1	21.0									5
9	2.6	3.8	5.4	7.7	11.0	14.8	18.2	21.0	23.1								20
10	2.9	4.3	5.9	8.2	12.0	16.7	21.9	26.5	29.2	31.4							23
11	2.8	4.0	5.7	8.1	11.5	16.0	20.7	25.3	28.7	31.3	33.3						25
12	3.0	4.1	5.7	8.2	11.4	15.4	19.9	24.6	28.6	31.4	33.4	35.1					25
13	2.9	4.1	5.6	7.7	10.5	14.0	18.5	22.5	26.6	30.1	32.8	35.0	36.8				13
14	2.7	4.0	5.8	7.8	11.0	14.9	19.0	23.3	27.0	30.6	33.3	36.1	37.8	39.3			11
15	2.9	4.4	6.0	8.2	11.0	14.4	18.1	22.3	26.2	30.5	33.2	35.9	37.3	38.7	40.8		4
16	2.5	3.3	5.0	5.9	8.1	11.2	14.6	16.8	25.1	31.4	35.1	36.1	37.8	38.8	40.1	41.8	1
	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	Total
	Year of Annulus Formation																163

M. S. L. = Mean Shell Length

Figure 4

Growth Histories of *Protothaca staminea* for Beach I, Olsen Bay, Prince William Sound, Alaska

Year Class	M. S. L. at Annulus 1	M. S. L. at Annulus 2	M. S. L. at Annulus 3	M. S. L. at Annulus 4	M. S. L. at Annulus 5	M. S. L. at Annulus 6	M. S. L. at Annulus 7	M. S. L. at Annulus 8	M. S. L. at Annulus 9	M. S. L. at Annulus 10	M. S. L. at Annulus 11	M. S. L. at Annulus 12	M. S. L. at Annulus 13	M. S. L. at Annulus 14	M. S. L. at Annulus 15	M. S. L. at Annulus 16	Number in Age Class
1	2.5																41
2																	0
3																	0
4																	0
5	2.9	4.1	5.6	8.8	12.9												4
6	2.9	4.2	6.0	8.9	13.1	17.6											21
7	2.8	4.0	6.0	9.0	14.0	18.4	22.8										62
8	2.8	4.0	5.9	8.8	13.4	18.5	22.9	26.1									103
9	2.9	4.1	5.8	8.5	12.4	18.5	23.4	27.0	29.7								114
10	2.8	4.0	5.7	8.2	11.9	17.6	23.0	26.9	30.2	32.2							57
11	2.8	4.2	5.7	7.9	11.3	16.2	21.3	26.0	29.4	31.8	33.4						20
12	2.9	4.0	5.9	8.1	11.0	15.9	21.9	26.5	30.2	32.9	34.9	36.9					6
13	3.0	4.1	5.7	7.7	9.9	14.8	19.8	25.0	29.7	32.5	34.3	36.0	37.4				7
14																	0
15																	0
16	2.7	3.9	6.2	8.2	10.7	13.4	18.2	21.9	25.2	29.4	33.3	39.0	42.6	45.6	48.7	49.8	1
	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	Total
	Year of Annulus Formation																436

M. S. L. = Mean Shell Length

Figure 5

Growth Histories of *Protothaca staminea* for Beach II, Olsen Bay, Prince William Sound, Alaska

Table 1

Number of *Protothaca staminea* per m<sup>2</sup>, Beach I, Olsen Bay, Alaska

Year of Settlement	Station 1 (1 m <sup>2</sup> )	Station 2 (1 m <sup>2</sup> )	Station 3 (1 m <sup>2</sup> )	Station 4 (1 m <sup>2</sup> )	Total
1973	7	2	1	0	10
1972	17	1	5	0	23
1971	0	0	0	0	0
1970	0	0	2	0	2
1969	1	0	0	0	1
1968	0	0	0	0	0
1967	3	1	0	0	4
1966	5	0	0	0	6
1965	2	2	1	0	5
1964	6	14	0	0	20
1963	7	16	0	0	23
1962	12	11	2	0	25
1961	14	4	7	0	25
1960	7	1	3	0	13
1959	7	1	3	0	11
1958	3	0	1	0	4
1957	1	0	0	0	1

Total settling before the 1964 earthquake = 102.

Total settling after the 1964 earthquake = 71.

Total *P. staminea* for the four (1 m<sup>2</sup>) stations = 173.Mean per m<sup>2</sup> = 43.

Table 2

Number of *Protothaca staminea* per m<sup>2</sup>, Beach II, Olsen Bay, Alaska

Year of Settlement	Station 1 (1 m <sup>2</sup> )	Station 2 (1 m <sup>2</sup> )	Station 3 (1 m <sup>2</sup> )	Station 4 (1 m <sup>2</sup> )	Total
1973	5	7	23	54	89
1972	5	5	31	0	41
1971	0	0	0	0	0
1970	0	0	0	0	0
1969	0	0	0	0	0
1968	1	0	1	2	4
1967	3	6	5	7	21
1966	8	15	26	13	62
1965	28	29	28	18	103
1964	38	33	24	19	114
1963	29	13	13	2	57
1962	15	2	3	0	20
1961	4	0	1	1	6
1960	7	0	0	0	7
1959	0	0	0	0	0
1958	0	0	0	0	0
1957	0	1	0	0	1

Total settling before the 1964 earthquake = 91.

Total settling after the 1964 earthquake = 434.

Total *P. staminea* for the four (1 m<sup>2</sup>) stations = 525.Mean per m<sup>2</sup> = 131.